

TAC – C11B01

Description:

TAC-C11B01 is a Carbon Fiber, and Graphite filled Bulk Molding Compound manufactured and designed to have outstanding thermal and strength characteristics.

Mechanical Properties	Value	Unit	Test Method
Tensile Strength	20.4	MPa	ASTM D638
Tensile Elongation at Break	2.4%	-	ASTM D638
Flexural Strength	28	MPa	ASTM D790
Flexural Modulus	12,991	MPa	ASTM D790
Un-notched Izod Impact ⁽¹⁾	223	J/m	ASTM D256
Thermal Properties	Value	Unit	Test Method
Thermal Conductivity (through plane)	2.5 - 3	W/m ² K	C-Therm
Coefficient of Thermal Expansion			
25° to 225°C	4.94E-05	(µm/m°C)	TMA
225°C to 320°C	7.60E-05	(µm/m°C)	TMA
320° to 350°C	2.00E-04	(µm/m°C)	TMA
Electrical Properties	Value	Unit	Test Method
Electrical Resistivity (through plane)	0.00E+00	Ω/cm	C-Therm
Other Properties	Value	Unit	Test Method
Glass Transition (T _g)			
<i>Post Baked</i>	>330	°C	DMA
<i>Un-Post Baked</i>	213	°C	DMA
Water Absorption ⁽²⁾	0.19%	-	ASTM D 570
Specific Gravity	1.90		ASTM D792

(1) Test conducted at a room temperature of 22°C

(2) Test conducted in temperature controlled water of 23°C for 24 hours

Disclaimer:

NOTICE TO USERS: All values represented are based on laboratory tests and does not represent or reflect conditions that exist in production. The data provided should not be used to or intended to substitute for any testing you may need to conduct to determine suitability of a material for a particular use. No warranty or legal responsibility is accepted or implied, and all information is accepted at buyer's risk. This information may be subject to revision as new knowledge and experience become available.

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